Supplementary materials

Table S1 – Precision of LMCV measurements

			Subject		
			1	2	3
Test target 33	Red	Mean	0.72	0.84	0.85
		Range	0.06	0.27	0.20
		AVDEV	0.01	0.08	0.05
		SD	0.02	0.10	0.06
		CV (%)	2.70	11.71	7.50
	Blue	Mean	0.72	0.85	0.83
		Range	0.03	0.17	0.12
		AVDEV	0.01	0.05	0.04
		SD	0.01	0.06	0.05
		CV (%)	1.58	7.54	5.72
Test target 39	Red	Mean	0.76	0.91	0.82
		Range	0.10	0.37	0.10
		AVDEV	0.03	0.09	0.03
		SD	0.04	0.13	0.04
		CV (%)	4.89	14.31	4.86
	Blue	Mean	0.73	0.89	0.82
		Range	0.04	0.30	0.13
		AVDEV	0.01	0.10	0.03
		SD	0.02	0.11	0.04
		CV(%)	2.12	12.81	4.45

s

AVDEV – average deviation, the mean absolute deviation of all measurements of each subject from the mean of the subject's measurements. SD – Standard Deviation; CV - Coefficient of Variation (CV, in %)

Table S2 – Control participants' chromatic pupilloperimetry data

ID	Target	Red PPC (%)	Red MCV (pixel/sec)	Red LMCV (sec)	Blue PPC (%)	Blue MCV (pixel/sec)	Blue LMCV (sec)
C#1	1	22.19	39.98	0.66	27.18	44.91	0.66
	2	18.14	36.54	0.66	24.83	43.14	0.64
	3	14.94	29.11	0.66	24.37	42.01	0.66
	4	17.66	32.58	0.64	26.79	43.87	0.66
	5	12.08	25.77	0.66	25	44.55	0.66
	6	18.07	31.19	0.62	26.14	42.33	0.64
	7	18.37	29.7	0.63	28.13	45.41	0.66
	8	17.47	33.34	0.66	23.16	43.01	0.66
	9	18.24	31.29	0.69	24.92	41.61	0.66
	10	12.96	20.56	0.69	30.07	45.88	0.63
	11	19.17	33.19	0.66	27.44	46.38	0.64
	12	13.79	27.99	0.62	24.57	43.88	0.66
	13	15.74	29.52	0.66	28.36	45.66	0.66
	14	20.82	28.38	0.66	27.1	43.9	0.63
	15	19.68	36.56	0.66	25.66	43.66	0.66
	16	16.62	30.74	0.66	25.86	43.6	0.67
	17	21.88	39.01	0.66	26.53	45.13	0.66
	18	11.8	22.54	0.66	27.19	47.17	0.64
	19	20.35	33.7	0.66	24.41	44.71	0.64
	20	16.17	32.29	0.66	26.89	44.6	0.66
	21	13.5	27.39	0.66	27.49	44.9	0.64
	22	17.49	32.87	0.66	28.11	43.91	0.64
	23	17.02	33.69	0.66	28.52	45.82	0.64
	24	20.84	35.68	0.66	26.85	40.53	0.64
	25	14.96	29.49	0.66	21.97	37.42	0.66
	26	15.05	24.36	0.66	27.16	43.68	0.62
	27	15.7	30.2	0.66	27.34	43	0.66
	28	11.3	20.54	0.66	29.1	47.49	0.66
	29	17.74	31.96	0.66	28.65	41.52	0.66
	30	19.49	35.36	0.66	26.27	46.65	0.66
	31	17.62	28.46	0.66	27.42	42.17	0.64
	32	20.83	36.61	0.66	24.35	42.7	0.66
	33	22.96	35.81	0.67	27.82	42.48	0.66
	34	19.94	28.88	0.66	31.06	41.94	0.66
	35	18.47	33.82	0.66	28.36	47.51	0.66
	36	11.81	21.96	0.66	27.12	45.95	0.66

	37	ND	ND	ND	27.37	46.34	0.62
	38	15.65	29.57	0.66	28.9	45.6	0.63
	39	15.51	30.78	0.66	22.38	39.52	0.63
	40	ND	ND	ND	22.96	40.85	0.66
	41	17.09	31.1	0.66	21.97	38.68	0.66
	42	17.67	28.18	0.66	25.05	41.26	0.66
	43	21.44	30.2	0.66	24.31	31.36	0.66
	44	25.28	33.14	0.66	30.34	44.79	0.66
	45	22.4	39.73	0.66	26.31	43.09	0.66
	46	13.2	24.08	0.69	25.67	43.44	0.66
	47	18.79	33.13	0.67	28.2	45.38	0.66
	48	16.46	29.14	0.69	22.37	41.33	0.66
	49	17.68	30.67	0.67	25.89	43.54	0.66
	50	17.38	32.25	0.69	22.11	40.38	0.66
	51	18.69	38.34	0.66	27.7	43.66	0.66
	52	17.45	29.68	0.66	26.56	44.59	0.66
	53	23.35	39.9	0.66	26.89	43.34	0.66
	54	13.68	25.67	0.66	26.77	44.02	0.66
	55	20.05	36.59	0.66	26.54	36.46	0.66
	56	12.27	23.14	0.69	27.3	44.21	0.66
	57	15.15	29.84	0.66	26.45	47.61	0.66
	58	11.57	20.86	0.69	26.31	43.03	0.66
	59	14.55	29.84	0.66	23.18	41.38	0.66
	60	17.97	30.66	0.64	22.39	40.55	0.66
	61	16.64	23.56	0.66	23.34	40.66	0.62
	62	19.72	34.61	0.67	21.68	35.67	0.66
	63	11.35	22.99	0.67	26.96	45.34	0.66
	64	11.65	23.23	0.67	21.75	38.95	0.66
	65	14.94	26.59	0.67	25.29	44.29	0.62
	66	11.58	22.14	0.66	27.78	42.18	0.66
	67	12.13	21.66	0.66	26.86	44.23	0.66
	68	13.14	27.19	0.66	21.97	34.85	0.66
	69	17.68	32.1	0.64	26.96	47.03	0.66
	70	16.06	28.96	0.66	20.19	35.29	0.66
	71	17.68	32.1	0.64	26.96	47.03	0.66
	72	12.61	25.61	0.66	25.43	43.46	0.66
	73	10.8	20.6	0.66	27.07	39.38	0.66
	74	17.68	32.1	0.64	26.96	47.03	0.66
	75	18.36	36.86	0.66	26.3	39.03	0.67
	76	14.63	27.07	0.66	23.14	40.59	0.66

C#2	1	ND	ND	ND	29.3	48.88	0.61
	2	10.24	24.98	0.66	33.48	49.69	0.64
	3	ND	ND	ND	33.84	49.37	0.61
	4	ND	ND	ND	36.79	53.02	0.64
	5	ND	ND	ND	30.24	41.01	0.64
	6	13.59	33.06	0.66	34.74	52.85	0.61
	7	16.8	39.6	0.62	37.21	56.89	0.62
	8	13.73	23.18	0.67	29.46	48	0.61
	9	14.46	29.91	0.64	38.78	55.88	0.63
	10	19.83	34.02	0.63	38.36	56.75	0.63
	11	9.32	20.46	0.66	34.93	50.46	0.63
	12	22.05	41.62	0.63	35.24	54.66	0.63
	13	8.25	21.22	0.66	32.65	53.27	0.64
	14	17.38	31.04	0.66	28.14	46.69	0.62
	15	ND	ND	ND	37.79	53.5	0.59
	16	ND	ND	ND	34.49	50.83	0.62
	17	20.78	41.99	0.62	40.02	54.05	0.62
	18	14.59	32.22	0.62	36.3	53.92	0.59
	19	ND	ND	ND	25.77	43.68	0.63
	20	11.64	27.33	0.66	28.3	52.69	0.62
	21	15.03	25.86	0.62	38.53	63.81	0.62
	22	18.65	32.75	0.62	31.87	46.48	0.63
	23	18.95	26.62	0.62	34.68	50.4	0.6
	24	22.2	42.59	0.66	33.95	49.52	0.61
	25	24.17	45.93	0.66	39.83	54.47	0.62
	26	21.47	38.08	0.66	41.21	61.79	0.59
	27	14.76	29.13	0.64	35	54.44	0.61
	28	22.41	41.62	0.63	40.39	51.9	0.62
	29	ND	ND	ND	34.84	51.86	0.62
	30	ND	ND	ND	35.82	59.3	0.62
	31	ND	ND	ND	35.46	56.01	0.62
	32	ND	ND	ND	30.57	38.68	0.66
	33	30.82	39.41	0.69	39.54	56.25	0.62
	34	16.85	31.62	0.62	37.2	57.23	0.63
	35	19.3	34.19	0.62	40.88	58.95	0.63
	36	15.96	34.85	0.62	36.94	53.24	0.63
	37	14.68	30.18	0.64	35.73	55.63	0.62
	38	18.63	34.26	0.64	37.88	49.62	0.62
	39	7.84	17.03	0.67	31.43	49.45	0.64
	40	ND	ND	ND	35.39	55.08	0.63
	41	ND	ND	ND	38.49	57.15	0.59

	42	ND	ND	ND	34.4	52.65	0.62
	43	25.67	38.74	0.62	40.54	54.05	0.61
	44	26.57	33.92	0.64	39.79	58.8	0.63
	45	22.03	28.99	0.67	37.29	57.77	0.62
	46	16.25	27.08	0.66	33.52	44.18	0.62
	47	13.23	27.7	0.62	35.51	55.97	0.62
	48	21.51	31.19	0.66	32.98	54.38	0.62
	49	ND	ND	ND	32.9	52.64	0.62
	50	6.47	8.81	1.81	34.54	53.41	0.62
	51	ND	ND	ND	32.62	52.26	0.63
	52	10.76	16.16	0.66	37.64	57.11	0.63
	53	12.65	13.52	0.64	38.51	56.7	0.64
	54	18.6	22.3	0.62	37.33	56.84	0.59
	55	ND	ND	ND	36.19	56.38	0.62
	56	15.54	27.87	0.64	34.52	52.12	0.62
	57	20.75	32.08	0.62	33.54	56.63	0.63
	58	12.84	24.85	0.64	31.94	50.19	0.63
	59	16.03	31.93	0.63	32.09	49.05	0.62
	60	6.33	14.03	0.69	31.87	57.19	0.62
	62	23.08	30.33	0.63	37.42	55.49	0.63
	63	ND	ND	ND	31.44	50.38	0.62
	64	18.08	29.26	0.64	33.43	49.51	0.62
	65	ND	ND	ND	32.21	49.5	0.62
	66	16.58	23.4	0.67	32.33	46.63	0.62
	67	12.03	27.46	0.62	28.72	48.37	0.66
	68	14.36	17.58	0.7	35.09	56.3	0.63
	69	12.45	24.47	0.64	25.59	45.42	0.62
	70	ND	ND	ND	31.24	53.24	0.63
	71	12.45	24.47	0.64	35.13	55.9	0.62
	72	13.76	22.94	0.66	27.19	40.62	0.66
	73	14.16	15.31	0.67	34.71	55.13	0.62
	74	12.45	24.47	0.64	35.13	55.9	0.62
	75	12.45	23.06	0.62	28.95	49.57	0.62
	76	18.87	26.72	0.62	32.52	54.72	0.63

C#3	1	15.36	16.02	0.72	30.89	38.85	0.62
	2	17.93	14.72	0.69	33.87	41.82	0.62
	3	16.95	21.66	0.66	30.83	37.58	0.66
	4	20.63	22.87	0.69	36.01	36.36	0.61
	5	16.09	23.73	0.66	ND	ND	ND
	6	18.84	23.85	0.66	29.35	33.79	0.62
	7	16.06	21.22	0.69	32.29	30.78	0.66
	8	21.19	29.18	0.66	32.12	37.14	0.63
	9	17.17	23.82	0.69	31.03	33.68	0.63
	10	19.72	23.87	0.69	34.17	28.42	0.5
	11	15.14	21.41	0.66	33.04	37.44	0.62
	12	14.91	21.23	0.66	25.01	26.81	0.66
	13	15.57	21.67	0.69	32.04	31.56	0.62
	14	22.52	27.06	0.66	28.18	36.67	0.62
	15	16.43	23.22	0.66	28.52	33.26	0.63
	16	15.39	22.65	0.66	32.21	36.78	0.62
	17	21.99	32.09	0.66	33.23	37.96	0.64
	18	23.23	31.62	0.66	23.72	25.29	0.66
	19	13.19	18.2	0.69	31.25	35.6	0.63
	20	16.08	21.99	0.66	31.61	36.16	0.62
	21	18.03	23.02	0.66	30.54	37.67	0.63
	22	18.34	27.55	0.66	35.65	28.98	0.66
	23	22.91	33.01	0.66	33.61	36.01	0.66
	24	23.89	29.42	0.66	26.71	30.32	0.66
	25	14.61	23.22	0.66	35.7	43.19	0.66
	26	28.24	33.47	0.63	34.12	39.34	0.62
	27	24.16	31.77	0.62	29.44	32.37	0.62
	28	21.74	29.08	0.66	29.4	35.05	0.63
	29	ND	ND	ND	33.78	33.42	0.66
	30	19.08	25.99	0.7	34.34	34.12	0.66
	31	17.42	27.29	0.66	39.14	40.6	0.66
	32	21.05	30.14	0.69	31.8	30.65	0.69
	33	30.24	34.07	0.66	40.65	34.05	0.66
	34	22.79	26.99	0.63	35.59	36.63	0.66
	35	21.05	28.24	0.66	ND	ND	ND
	36	24.59	27.23	0.69	28.13	29.58	0.66
	37	22.46	24.67	0.66	34.03	31.7	0.62
	38	24.21	31.33	0.66	25.78	21.76	0.66
	39	20.8	25.56	0.69	27.35	31.45	0.66
	40	21.78	29.15	0.69	29.81	25.38	0.66
	41	23.05	30.25	0.66	27.64	26.42	0.66

	42	24.09	30.08	0.69	36.66	41.84	0.66
	43	27.7	28.66	0.69	34.6	34.79	0.66
	44	31.57	35.31	0.66	36.16	39.31	0.66
	45	27.2	27.6	0.66	32.8	34.47	0.64
	46	19.2	20.24	0.66	29.76	37.45	0.62
	47	24.79	30.58	0.66	32.75	35.41	0.66
	48	27.37	33.68	0.62	33.27	35.43	0.62
	49	22.2	30.89	0.62	23.3	19.55	0.62
	50	17.58	23.82	0.69	31.67	36.76	0.63
	51	20.46	25.03	0.69	30.59	37.8	0.62
	52	21.33	32.27	0.66	32.72	34.76	0.63
	53	22.14	26.45	0.66	32.93	26.8	0.59
	54	27.04	31.68	0.66	33.55	32.6	0.64
	55	24.27	26.52	0.66	31.9	37.68	0.66
	56	24.54	32.8	0.62	31.52	29.55	0.62
	57	25.34	29.86	0.62	36.2	42.09	0.63
	58	27.73	27.35	0.66	28.71	33.34	0.66
	59	22.27	26.54	0.66	30.82	33.97	0.66
	60	18.16	24.28	0.69	34.98	41.63	0.67
	61	21.6	27.61	0.66	33.29	39.55	0.62
	62	23.86	27.24	0.69	32.7	39.31	0.63
	63	ND	ND	ND	34.85	42.52	0.64
	64	25.2	31.98	0.62	33.24	35.06	0.62
	65	23.75	26.71	0.66	33.6	30.18	0.62
	66	21.9	29.71	0.66	34.27	39.55	0.62
	67	21.68	29.41	0.66	31.76	36.23	0.67
	68	19.56	27	0.66	30.07	36	0.64
	69	19.81	23.67	0.66	34.47	36.17	0.62
	70	18.75	25.48	0.66	28.78	34.02	0.63
	71	19.32	23.02	0.66	34.47	36.17	0.62
	72	19.29	23.83	0.67	26.54	31.76	0.62
	73	19.03	25.81	0.69	30.01	34.99	0.66
	74	19.32	23.02	0.66	34.47	36.17	0.62
	75	15.16	22.48	0.62	31.61	34.3	0.66
	76	21.94	27.71	0.63	28.33	31.54	0.64

C#4	1	1.25	3.43	0.72	7.17	17.07	0.62
	2	2.77	6.06	0.67	13.16	33.49	0.61
	3	3.33	8.94	0.66	10.51	25.83	0.64
	4	2.49	6.56	0.66	16.48	38.34	0.61
	5	5.82	14.74	0.66	14.64	34.38	0.61
	6	1.99	5.06	0.72	10.89	26.04	0.62
	7	2.64	6.33	0.69	17.33	40.68	0.63
	8	8.69	21.67	0.62	16.52	37.44	0.63
	9	2.05	4.58	0.69	10.06	24.39	0.62
	10	1.88	4.97	0.66	21.76	44.38	0.62
	11	1.31	3.14	0.69	18.65	40.21	0.63
	12	2.19	5.78	0.69	14.42	35.18	0.62
	13	3.03	7.28	0.72	18.74	40.21	0.63
	14	7.01	17.19	0.67	15.64	37.01	0.62
	15	2.04	5.25	0.69	6.27	15.88	0.61
	16	13.3	28.65	0.63	16.73	38.36	0.62
	17	3.27	8.47	0.66	13.42	32.07	0.66
	18	1.52	4.13	0.67	16	38.74	0.61
	19	3.68	8.73	0.69	18.84	40.8	0.64
	20	3.26	8.55	0.69	17.94	39.59	0.62
	21	2.49	6.13	0.69	24.07	46.18	0.62
	22	2.46	6.13	0.75	26.59	46.51	0.62
	23	6.85	15.27	0.69	16.77	36.45	0.61
	24	11.28	24.26	0.67	16.33	35.84	0.62
	25	8.67	19.35	0.66	17.22	39.57	0.62
	26	9.55	22.46	0.66	11.5	29.45	0.62
	27	5.74	15.56	0.66	24.15	48.14	0.61
	28	5.72	14.77	0.66	15.6	34.74	0.62
	29	2.91	6.93	0.72	18	38.83	0.63
	30	ND	ND	ND	15.99	37.3	0.61
	31	1.61	4.03	0.72	16.57	38.58	0.63
	32	5.72	13.49	0.7	18.99	41.26	0.63
	33	8.86	17.98	0.69	22.02	42.56	0.63
	34	4.61	10.28	0.69	18.88	37.06	0.66
	35	9.07	20.69	0.67	18.67	42.85	0.61
	36	ND	ND	ND	19.39	42.6	0.62
	37	9.63	23.85	0.62	15.22	34.74	0.62
	38	6.07	14.87	0.66	18.77	39.9	0.62
	39	5.46	13.75	0.69	16.39	40.49	0.64
	40	12.01	25.75	0.66	17.35	39.48	0.63
	41	3.54	8.59	0.69	15.61	37.17	0.64

	42	8.66	17.55	0.73	19.17	39.05	0.63
	43	7.11	14.67	0.7	30.81	52.8	0.64
	44	10.41	23.02	0.66	25.48	43.45	0.63
	45	13.71	32.15	0.62	20.33	44.87	0.61
	46	8.27	19.81	0.67	19.34	41.61	0.63
	47	9.42	23.49	0.66	16.72	35.27	0.61
	48	11.96	25.77	0.66	17.24	38.17	0.63
	49	7.64	17.59	0.66	13.99	33.42	0.62
	50	10.94	25.89	0.64	10.98	27.08	0.62
	51	1.64	2.45	0.78	12.84	30	0.64
	52	8.82	18.28	0.64	19.94	41.83	0.64
	53	10.89	22.91	0.66	19.65	37.24	0.64
	54	11.6	23.24	0.67	29.11	47.21	0.64
	55	12.66	22.84	0.69	18.76	41.64	0.64
	56	5.45	12.46	0.67	17.38	39.18	0.63
	57	8.1	18.99	0.62	24.08	54.19	0.61
	58	4.37	11.11	0.66	22.96	46.3	0.63
	59	4.31	11.98	0.63	16.5	37.61	0.62
	60	7.64	19.1	0.66	12.93	29.19	0.63
	61	9.66	18.36	0.66	21	46.61	0.63
	62	14.84	27.9	0.66	19.47	42.34	0.63
	63	12.84	23.72	0.64	16.05	34.72	0.62
	64	9.18	21.6	0.66	17.62	37.23	0.61
	65	12.22	25.62	0.66	18.9	40.85	0.62
	66	2.82	7.4	0.62	18.18	40.39	0.62
	67	6.39	15.18	0.66	13.05	27.23	0.63
	68	2.23	7.43	0.72	15.44	35.12	0.64
	69	3.16	8.23	0.67	16.51	36.5	0.62
	70	5	12.89	0.67	20.58	41.53	0.62
	71	3.16	8.23	0.67	16.51	36.5	0.62
	72	2.75	6.22	0.66	14.72	32.83	0.62
	73	4.39	11.29	0.66	13.51	28.51	0.64
	74	3.16	8.23	0.67	16.51	36.5	0.62
	75	6.89	17.05	0.63	18.95	40.52	0.64
	76	3.86	8.95	0.73	20.98	45.47	0.62

C#5	1	ND	ND	ND	14.85	24.58	0.66
	2	10.43	18.33	0.7	20.49	32.46	0.66
	3	3.22	6.92	0.72	15.32	26.99	0.69
	4	8.76	13.59	0.72	19.1	29.12	0.69
	5	9.84	16.9	0.72	10.59	19.21	0.69
	6	5.44	11.73	0.72	17.93	29.8	0.66
	7	9.79	15.46	0.73	17.16	26.48	0.69
	8	10.79	14.81	0.67	18.63	26.57	0.66
	9	9.44	17.8	0.69	15.46	28.15	0.66
	10	13.8	17.11	0.73	21.22	29.7	0.7
	11	6.92	13.45	0.69	17.97	28.42	0.66
	12	6.99	14.48	0.69	14.16	23.16	0.66
	13	12.8	20.4	0.69	15.49	26.36	0.66
	14	9.07	14.97	0.7	11.88	20.43	0.66
	15	10.7	15.86	0.7	15.19	24.91	0.67
	16	8.99	12.95	0.69	19.23	28.88	0.69
	17	13.31	21.18	0.69	17.89	28.63	0.66
	18	5.68	11.06	0.72	12.24	21.42	0.66
	19	6.98	14.22	0.69	18.28	31.63	0.66
	20	10.39	18.23	0.7	11.9	20.75	0.69
	21	6.39	12.91	0.72	17.71	24.66	0.7
	22	12.63	17.96	0.72	15.6	23.06	0.69
	23	3.45	7.81	0.7	10.89	20.99	0.69
	24	7.77	12.42	0.72	14.04	22.19	0.69
	25	8.17	13.13	0.7	12.4	21.78	0.66
	26	8.02	13.72	0.69	17.7	26.23	0.66
	27	6.04	12.63	0.72	23.82	31.9	0.67
	28	4.47	9.36	0.75	18.52	29.19	0.67
	29	5.24	8.7	0.72	9.35	18.16	0.66
	30	7.23	12.65	0.69	14.78	22.69	0.69
	31	12.75	15.89	0.75	11.55	20.49	0.66
	32	12.52	17.21	0.7	19.89	24.73	0.69
	33	14.37	22.34	0.69	10.91	19.34	0.69
	34	ND	ND	ND	15.94	26.01	0.66
	35	11.64	12.25	0.75	15.8	26.2	0.69
	36	3.41	7.59	0.69	11.28	20.37	0.69
	37	4.34	9.73	0.69	12.87	22.64	0.67
	38	5.29	10.85	0.73	15.07	24.35	0.66
	39	15.14	20.13	0.7	17.23	29.71	0.66
	40	6.16	11.14	0.72	17.89	28.76	0.66
	41	11.66	20.25	0.69	18.51	26.44	0.66

	42	18.45	20.2	0.72	14.72	26.45	0.66
	43	16.9	16.73	0.75	18.17	24.75	0.69
	44	18.75	19.05	0.72	23.12	29.11	0.69
	45	10.66	16.46	0.72	26.44	33.2	0.69
	46	11.86	18.22	0.69	13.28	24.42	0.66
	47	10.9	16.47	0.69	10.1	20.97	0.69
	48	11.21	18.51	0.69	15.19	27.72	0.66
	49	4.55	8.6	0.73	11.97	23.78	0.66
	50	10.66	17.31	0.69	19.21	26.83	0.69
	51	10.76	13.8	0.7	12.54	24.13	0.66
	52	7.2	13.85	0.69	14.16	25.59	0.67
	53	19.72	21.53	0.75	15.76	19.57	0.69
	54	15.5	18.72	0.72	13.51	23.27	0.67
	55	11.23	18.74	0.69	17.02	25.86	0.69
	56	9.37	14.89	0.69	17.03	24.94	0.67
	57	8	12.95	0.73	19.01	27.12	0.66
	58	7.34	9.83	0.72	12.91	20.95	0.69
	59	11.91	17.83	0.69	14.68	22.69	0.69
	60	8.25	13.69	0.72	12.01	20.35	0.69
	61	3.91	6.23	0.72	10.62	22.02	0.66
	62	13.06	17.44	0.72	9.37	18.18	0.66
	63	8.51	11.65	0.69	18.95	30.35	0.66
	64	4.5	8.34	0.72	16.92	24.71	0.69
	65	8.01	15.59	0.72	15.59	26.73	0.66
	66	ND	ND	ND	13.74	23.41	0.69
	67	ND	ND	ND	10.05	18.21	0.67
	68	12.22	14.93	0.69	10.81	19.13	0.69
	69	3.99	7.91	0.72	11.06	18.72	0.69
	70	9.77	15.3	0.7	7.05	13.71	0.69
	71	3.99	7.91	0.72	10.19	20.76	0.69
	72	ND	ND	ND	14.95	26.58	0.66
	73	11.08	18.1	0.69	13.32	21.45	0.66
	74	3.99	7.91	0.72	10.19	20.76	0.69
	75	ND	ND	ND	17.99	24.55	0.69
	76	8.37	12.72	0.75	10.19	20.76	0.69

C#6	1	3.75	10.03	0.66	15.14	33.5	0.62
	2	7.33	18.34	0.66	11.83	27.16	0.66
	3	7.84	18.36	0.66	8.41	21.18	0.64
	4	6.32	16	0.66	20.53	43.16	0.62
	5	0.69	2.24	0.7	8.15	19.52	0.66
	6	5.71	13.3	0.66	14.76	30.59	0.66
	7	5.19	12.66	0.7	14.39	32.71	0.66
	8	6.78	15.44	0.66	12.25	28.67	0.66
	9	7.79	19.15	0.66	13.34	30.32	0.66
	10	8.83	21.11	0.66	17.52	37.25	0.66
	11	4.55	11.07	0.67	12.55	28.61	0.66
	12	3.26	8.88	0.69	8.83	19.24	0.62
	13	4.72	11.35	0.66	11.3	25.16	0.66
	14	8.87	21.17	0.66	15.31	34.83	0.63
	15	12.21	27.23	0.66	15.19	32.87	0.66
	16	9.81	23.95	0.66	17.97	36.92	0.66
	17	5.39	14.34	0.66	10.64	25.56	0.66
	18	6.17	14.25	0.67	17.2	37.88	0.66
	19	8.3	18.41	0.66	10.28	24.31	0.66
	20	6.66	17.22	0.67	14.22	31.97	0.66
	21	5.83	14.02	0.66	14.06	30.93	0.62
	22	11.8	23.66	0.67	18.2	39.28	0.66
	23	13.91	30.41	0.66	15.92	35.01	0.64
	24	10.71	25.24	0.64	14.77	31.64	0.64
	25	3.59	9.42	0.66	14.49	30.56	0.66
	26	9.15	21.56	0.67	18.05	39.13	0.64
	27	6.06	14.04	0.66	18.33	39.24	0.66
	28	5.25	12.41	0.66	12.3	28.42	0.66
	29	6.84	17.68	0.66	16.21	34.16	0.66
	30	5.56	12.79	0.66	10.36	24.06	0.66
	31	4.79	11.53	0.67	14	33.33	0.64
	32	8.9	21.1	0.66	15.22	31.64	0.66
	33	12.81	26.71	0.69	11.8	26.47	0.66
	34	7.36	13.35	0.7	11.19	26.16	0.66
	35	7.55	18.54	0.66	11.11	25.82	0.66
	36	7.29	17.95	0.66	16.93	33.64	0.62
	37	7.75	18.84	0.66	12.2	28.6	0.66
	38	7.8	17.31	0.66	8.14	21.44	0.66
	39	10.42	24.65	0.66	10.83	26	0.66
	40	5.68	13.77	0.67	15.09	33.4	0.66
	41	9.24	21.17	0.66	12.51	28.81	0.66

	42	5.85	14.18	0.66	10.72	25.67	0.66
	43	8.49	19.03	0.69	8.41	20.73	0.67
	44	9.56	20.69	0.69	16.41	35.86	0.66
	45	11.36	25.8	0.66	16.21	35.91	0.66
	46	6.4	16.39	0.66	11.99	27.65	0.66
	47	8.13	19.53	0.64	16.39	36.48	0.66
	48	5.78	15.21	0.62	12.5	29.59	0.67
	49	7.25	17.76	0.67	13.48	31.04	0.66
	50	5.77	14.51	0.66	12.76	30.09	0.66
	51	4.36	11.27	0.66	10.83	26.44	0.66
	52	6.46	16.7	0.66	13.1	30.78	0.66
	53	9.17	22.01	0.67	12.98	29.44	0.66
	54	5.19	12.97	0.67	13.75	33.49	0.66
	55	9.57	24.01	0.66	11.12	26.73	0.62
	56	6.37	15.79	0.66	8.81	20.47	0.66
	57	2.94	8.51	0.66	15.1	33.06	0.66
	58	4.23	11.56	0.66	13.65	31.27	0.62
	59	8.22	20.25	0.67	15.66	35.32	0.66
	60	9.42	18.77	0.69	9.09	23.24	0.66
	61	3.12	8.18	0.7	12.59	29.72	0.66
	62	7.64	19.5	0.67	13.46	31.66	0.66
	63	3.96	10.28	0.66	14.22	32.08	0.66
	64	9.09	20.97	0.66	13.12	31.1	0.66
	65	10.54	20.35	0.67	16.66	35.98	0.63
	66	7.6	15.44	0.69	12.26	28.75	0.66
	67	6.74	16.3	0.67	12.04	29.01	0.62
	68	7.26	18.15	0.66	14.03	33.28	0.64
	69	2.97	7.94	0.67	11.57	26.2	0.66
	70	3.9	8.14	0.66	7.24	18.73	0.66
	71	2.97	7.94	0.67	11.2	26.12	0.66
	72	5.4	10.08	0.7	9.54	23.18	0.66
	73	2.07	5.81	0.62	11.26	27.26	0.66
	74	2.97	7.94	0.67	11.2	26.12	0.66
	75	8.69	21.28	0.66	12.28	27.7	0.64
	76	3.93	9.58	0.62	15	33.24	0.62

C#7	1	10.85	9.21	0.67	13.45	16.96	0.69
	2	9.92	11.28	0.75	15.32	18.86	0.66
	3	2.39	4.45	0.69	17.87	22.01	0.66
	4	4.11	6.15	0.69	12.56	16.66	0.69
	5	3.93	6.4	0.72	9.95	13.2	0.69
	6	7.83	10.59	0.69	14.66	16.81	0.66
	7	12.14	15.96	0.67	18.02	20.87	0.69
	8	9.73	14.04	0.66	15.62	18.22	0.69
	9	5.82	8.35	0.72	14.29	19.34	0.69
	10	ND	ND	ND	19.12	23.18	0.66
	11	3.8	5.16	0.73	16.44	20.37	0.66
	12	6.92	9.29	0.69	17.07	17	0.69
	13	12.96	12.79	0.69	17.72	20.95	0.66
	14	5.79	8.37	0.75	18.81	20.25	0.66
	15	9.25	12.55	0.69	17.14	22.97	0.66
	16	8.11	12.03	0.69	20.55	24.24	0.66
	17	8.37	10.35	0.67	15.88	18.14	0.69
	18	6.18	8.98	0.69	17.88	23.16	0.66
	19	9.24	12.91	0.69	11.27	15.57	0.66
	20	9.11	11.43	0.69	14.9	18.56	0.66
	21	9.5	12.03	0.72	17.17	20.24	0.66
	22	13.37	16.06	0.69	20.69	21.72	0.66
	23	11.71	15.06	0.66	22.15	23.25	0.66
	24	7.1	7.28	0.7	18.74	22.54	0.69
	25	11.9	14.9	0.69	16.89	21.71	0.69
	26	12.98	14.35	0.67	13.89	18.87	0.66
	27	11.05	12.34	0.66	18.29	20.85	0.66
	28	6.06	9.21	0.69	15.84	17.54	0.69
	29	11.52	16.31	0.69	22.19	23.5	0.66
	30	8.93	12.55	0.72	17.43	20.69	0.66
	31	9.62	15.54	0.67	25.5	21.96	0.66
	32	7.38	7.16	0.72	22.95	24.83	0.66
	33	16.45	19.54	0.69	25.44	19.8	0.72
	34	9.81	10.21	0.72	ND	ND	ND
	35	13.9	13.07	0.66	20.98	23.93	0.66
	36	7.1	7.98	0.75	19.74	24.12	0.66
	37	5.09	6.3	0.67	15.22	19	0.66
	38	7.72	9.12	0.7	15.9	18.76	0.66
	39	9.37	12.69	0.66	15.66	19.66	0.69
	40	8.61	11.42	0.69	18.21	17.77	0.69
	41	5.64	7.91	0.72	15.13	20.56	0.66

	42	5.99	5.9	0.72	16.82	21.21	0.69
	43	12.48	9.53	0.8	19.58	19.34	0.72
	44	14.67	12.54	0.72	16.95	17.59	0.69
	45	12.25	13.18	0.69	19.7	23.35	0.69
	46	3.19	4.02	0.75	10.83	14.24	0.69
	47	11.95	15.28	0.69	16.44	21.06	0.66
	48	6.23	6.74	0.72	15.38	18.76	0.66
	49	9.56	10.6	0.72	13.69	17.87	0.69
	50	5.78	7.73	0.69	13.85	18.01	0.64
	51	6.72	6.48	0.72	13.11	17.69	0.69
	52	2.04	3.08	0.72	18.06	21.1	0.67
	53	6.32	8.64	0.72	17.47	20.12	0.69
	54	11.45	13.13	0.69	ND	ND	ND
	55	8.26	10.09	0.69	15.77	17.44	0.66
	56	4.27	6.95	0.69	14.68	18.75	0.66
	57	14.24	13.39	0.69	15.82	18.16	0.69
	58	10.66	6.96	0.31	10.75	15.22	0.66
	59	4.64	2.8	0.69	15.62	17.88	0.66
	60	12.12	15.82	0.69	14.36	17.48	0.67
	61	9.44	9.61	0.66	13.18	18.63	0.66
	62	13.12	12.44	0.64	12.29	16.71	0.69
	63	8.71	11.74	0.69	16.36	16.63	0.69
	64	6.93	9.55	0.69	10.17	12.41	0.69
	65	10.37	8.2	0.69	13.38	15.17	0.69
	66	9.32	10.52	0.69	14.34	19.02	0.69
	67	8.65	6.82	0.22	12.45	14.36	0.69
	68	3.35	4.03	0.78	14.78	17.4	0.66
	69	8.33	10.6	0.69	14.08	16.13	0.66
	70	3.8	6.34	0.72	8.06	11.75	0.69
	71	8.33	10.6	0.69	14.08	16.13	0.66
	72	10.02	13.2	0.66	11.53	13.37	0.69
	73	3.98	4.86	0.69	10.9	14.59	0.69
	74	8.33	10.6	0.69	14.08	16.13	0.66
	75	11.59	11.56	0.66	18.8	18.51	0.66
	76	3.48	5.95	0.66	11.84	15.6	0.69

C#8	1	14.18	26.56	0.69	23.35	35.05	0.69
	2	13.54	20.9	0.73	23	31.39	0.69
	3	15.3	21.11	0.72	21.18	32.18	0.72
	4	10.62	17.73	0.72	27.53	38.48	0.72
	5	7.53	15.07	0.72	14.8	25.8	0.72
	6	14.93	26.92	0.69	25.07	30.67	0.72
	7	18.13	26.01	0.72	24.6	34.61	0.72
	8	20.48	31.27	0.7	27.03	33.82	0.69
	9	13.71	23.19	0.69	24.86	34.42	0.72
	10	15.19	25.49	0.69	14.42	26.46	0.72
	11	8	14.46	0.69	24	34.62	0.69
	12	11.85	20.31	0.7	26.06	33.3	0.69
	13	18.99	30.05	0.69	26.12	34.39	0.72
	14	21.52	28.06	0.69	25.52	36.56	0.69
	15	21.98	31.46	0.72	28.43	37.07	0.69
	16	17.07	26.89	0.69	26.29	33.86	0.69
	17	22.72	33.78	0.69	26.94	35.68	0.69
	18	12.78	23.08	0.7	28.76	37.4	0.69
	19	11.38	23.01	0.7	21.2	31.85	0.69
	20	9.78	18.27	0.72	26.31	33.83	0.69
	21	11.6	23.4	0.7	20.15	32.2	0.69
	22	14.86	26.86	0.69	25.89	33.16	0.69
	23	16.97	29.61	0.67	29.67	35.83	0.72
	24	15.75	23.3	0.72	29.72	36.53	0.69
	25	22.72	30.62	0.7	27.87	36.09	0.69
	26	19.45	29.65	0.69	28.37	41.06	0.69
	27	22.65	30.69	0.69	31.69	39.54	0.69
	28	ND	ND	ND	28.21	37.69	0.69
	29	18.34	32.35	0.7	25.76	37.5	0.69
	30	13.69	24.32	0.69	23.62	32.16	0.72
	31	13.99	24.88	0.72	24.2	29.25	0.69
	32	12.21	22.86	0.72	24.93	33.22	0.69
	33	27.86	24.41	0.72	34.71	38.2	0.72
	34	24.63	30.7	0.73	34.25	35.63	0.72
	36	18.47	29.38	0.69	24.73	34.96	0.69
	37	16.33	27.04	0.69	30.76	36.19	0.69
	38	16.91	24.6	0.72	26.48	37.11	0.69
	39	16.78	24.6	0.72	28.97	32.06	0.69
	40	20.08	31.19	0.69	23.66	31.61	0.72
	41	18.11	29.11	0.69	26.72	34.78	0.69
	42	19.07	27.69	0.72	25.17	31.51	0.7

	43	27.13	23.82	0.75	29.49	34.69	0.72
	44	30.75	33.21	0.72	37.69	36.7	0.69
	45	26.34	30.86	0.72	23.26	25.59	0.69
	46	14.76	24.57	0.69	21.85	30.38	0.72
	47	12.99	23.39	0.72	21.47	32.57	0.69
	48	19.21	29.21	0.69	25.97	34.22	0.72
	49	12.67	17.33	0.72	20.85	30.44	0.69
	50	10.99	19.39	0.69	24.95	33.96	0.72
	51	14.01	22.98	0.69	24.82	31.37	0.69
	52	16.68	25.84	0.69	25.13	32.24	0.69
	53	17.72	26.39	0.72	30.95	34.35	0.69
	54	16.45	26.42	0.69	20.9	29.61	0.69
	55	14.65	25.94	0.66	24.85	32.66	0.69
	56	14.41	26.62	0.69	24.32	32.9	0.72
	57	15.4	27.11	0.69	26.56	36.4	0.72
	58	5.43	10.12	0.72	19.89	25.29	0.72
	59	13.43	20.71	0.72	21.56	30.08	0.72
	60	14.41	24.4	0.72	19.38	29.26	0.69
	61	14.99	25.49	0.69	22.76	32.32	0.72
	62	22.04	28.62	0.69	30.81	37.74	0.69
	63	18.78	26.89	0.69	26.66	32.28	0.72
	64	3.29	8.14	0.72	21.67	30.64	0.72
	65	12.58	23.74	0.72	17.55	26.53	0.69
	66	14.32	25.02	0.69	12.32	22.62	0.69
	67	5.75	11.46	0.72	20.62	26.14	0.69
	68	11.15	21.16	0.69	22.97	29.93	0.69
	69	15.16	26.32	0.73	24.72	32.38	0.72
	70	8.68	18.33	0.72	14.5	25.66	0.69
	71	15.16	26.32	0.73	24.72	32.38	0.72
	72	9.46	18.06	0.72	18.3	29.04	0.69
	73	11.32	21.92	0.69	23.62	30.16	0.72
	74	15.16	26.32	0.73	24.72	32.38	0.72
	75	18.22	31.11	0.69	23.1	33.18	0.69
	76	11.19	20.38	0.72	16.77	25.12	0.72

C#9	1	19.69	34.37	0.66	23.85	46.72	0.66
	2	14.24	33.2	0.66	29.08	48.67	0.62
	3	15.53	34.24	0.66	30.63	48.32	0.66
	4	17.23	38.4	0.66	31.63	49.27	0.63
	5	7.89	20.25	0.69	30.27	50.01	0.66
	6	9.78	23.64	0.66	29.52	50.14	0.63
	7	11.82	26.3	0.66	28.44	49.21	0.66
	8	16.91	37.95	0.66	28.58	50.16	0.63
	9	17.99	36.2	0.66	33.59	50.48	0.66
	10	16.33	35.59	0.66	32.18	40.72	0.62
	11	12	29.94	0.66	29.56	52.6	0.63
	12	10.77	28.81	0.67	27.38	49.44	0.66
	13	10.66	27.02	0.66	26.13	47.2	0.63
	14	12.08	29.82	0.66	24.57	43.54	0.66
	15	16.73	36.46	0.66	31.23	49.28	0.63
	16	21.96	40.39	0.66	32.73	38.97	0.64
	17	19.87	42.16	0.66	31.47	54.6	0.63
	18	13.9	32.07	0.66	30.52	48.6	0.62
	19	11.72	28.64	0.66	23.12	41.22	0.66
	20	13.12	31.52	0.66	23.85	43.76	0.66
	21	9.33	24.33	0.66	25.01	46.88	0.63
	22	11.76	30.1	0.66	22.91	46.28	0.62
	23	27.33	45.4	0.66	28.37	43.67	0.63
	24	20.25	39.1	0.66	30.53	50.84	0.62
	25	26.56	42.77	0.63	29.13	50.06	0.66
	26	19.12	37.57	0.69	28.77	49.87	0.63
	27	22.78	39.07	0.64	30	50.02	0.63
	28	24.09	39.01	0.66	27.13	50.09	0.63
	29	20.25	32.79	0.66	31.74	49.35	0.66
	30	9.74	25.92	0.69	25.73	47.65	0.62
	31	10.89	28.36	0.69	27.26	50.91	0.66
	32	13.48	29.36	0.69	26.7	49.14	0.66
	33	22.37	37.07	0.7	36.23	47.3	0.66
	34	21.48	37.84	0.69	30.77	50.01	0.66
	35	18.39	33.84	0.66	30.15	49.14	0.63
	36	18.26	40.21	0.66	27.28	51.49	0.66
	37	19.45	33.23	0.61	34.19	47.82	0.64
	38	13.98	31.99	0.66	30.55	48.51	0.66
	39	14.53	35.11	0.66	29.16	50.38	0.64
	40	17.81	33.86	0.66	30.01	44.04	0.66
	41	16.29	35.73	0.66	27.16	50.97	0.62

	42	19.96	40.18	0.66	25.72	49.7	0.63
	43	17.66	34.7	0.69	24.42	31.72	0.66
	44	21.26	40.91	0.69	31.02	48.85	0.66
	45	23.61	42.07	0.66	31	50.63	0.62
	46	ND	ND	ND	27.44	46.22	0.62
	47	20.29	38.87	0.66	31.67	53.91	0.62
	48	16.14	34.88	0.66	26.96	43.13	0.62
	49	12.1	27.73	0.66	28.15	50.81	0.63
	50	11.8	28.48	0.66	26.85	47.64	0.62
	51	12.27	28.11	0.66	26.47	49.09	0.66
	52	13.3	32.4	0.66	28.2	51.1	0.62
	53	16.94	36.8	0.66	27.65	46.45	0.66
	54	16.66	32.95	0.66	28.6	39.73	0.64
	55	19.77	37.19	0.66	30.17	46.98	0.63
	56	17.71	37.54	0.66	29.1	41.68	0.62
	57	14.59	30.64	0.66	28.76	49.93	0.66
	58	18.56	34.48	0.66	29.3	50.45	0.62
	59	16.57	30.99	0.69	28.15	47.66	0.62
	60	13.19	30.02	0.66	28.16	48.76	0.66
	61	11.99	30.23	0.66	26.61	45.98	0.64
	62	14.48	31.69	0.66	26.19	42.91	0.63
	63	18.66	34.31	0.66	29.63	49.87	0.63
	64	13.11	27.45	0.66	32.66	45.52	0.62
	65	13.28	29.64	0.66	30.85	46.25	0.64
	66	7.96	19.9	0.66	27.62	46.75	0.64
	67	9.99	25.65	0.66	25.92	45.43	0.66
	68	11.99	26.83	0.66	29.06	40.35	0.63
	69	16.17	31	0.66	27.68	40.96	0.63
	70	8.58	21.22	0.69	25.1	47.12	0.62
	71	16.17	31	0.66	27.68	40.96	0.63
	72	14.99	33	0.66	32.04	50.78	0.62
	73	12.28	27.39	0.66	23.66	42.71	0.66
	74	16.17	31	0.66	27.68	40.96	0.63
	75	12.01	28.27	0.66	23.76	39.24	0.66
	76	10.82	24.31	0.66	27.67	46.55	0.62
PPC – percentage of pupil contraction; MCV – maximal pupil contraction velocity; LMCV - latency of maximal pupil contraction velocity; sec- seconds;							

Table S3 – BEST patients' chromatic pupilloperimetry data

ID	Target	Red PPC (%)	Red MCV (Pixel/sec)	Red LMCV (sec)	Blue PPC (%)	Blue MCV (pixel/sec)	Blue LMCV (sec)
P#1	1	8.08	15.76	0.59	18.12	29.27	0.56
	2	8.04	16.68	0.59	18.09	27.21	0.56
	3	2.07	3.29	0.59	22.14	25.12	0.56
	4	7.21	16.62	0.56	21.84	24.6	0.56
	5	8.97	18.12	0.53	16.59	28.56	0.56
	6	7.51	17.23	0.59	ND	ND	ND
	7	7.4	15.52	0.59	15.19	26.84	0.55
	8	3.28	7.59	0.63	17.23	29.08	0.56
	9	7.07	15.12	0.56	25.33	36.15	0.56
	10	10.13	17.65	0.56	20.82	31.13	0.53
	11	7.72	18.49	0.56	20.95	31.51	0.56
	12	4.42	11.45	0.59	22.51	35.86	0.5
	13	13.73	28.92	0.53	ND	ND	ND
	14	10.64	15.9	0.56	16.28	30.09	0.55
	15	7.25	14.77	0.56	24.21	33.12	0.56
	16	ND	ND	ND	24.86	32.86	0.56
	17	8.11	18.6	0.56	25.07	35.17	0.56
	18	3.39	7.39	0.59	19.81	24.17	0.62
	19	8.02	18.94	0.56	19.44	32.1	0.53
	20	9.9	19.1	0.59	18.93	32.13	0.56
	21	12.01	15.12	0.53	21.35	36.43	0.55
	22	11.3	19.56	0.59	19.19	26.71	0.56
	23	5.43	14.01	0.59	14.67	25.24	0.56
	24	5.24	12.34	0.59	22.82	33.54	0.56
	25	4.21	8.25	0.59	22.06	33.57	0.56
	26	7.49	13.04	0.61	26.29	34.5	0.56
	27	7.83	15.06	0.59	25.8	35.13	0.56
	28	3.81	9.22	0.59	24.23	33.21	0.56
	29	7.7	16.9	0.61	14.42	29.95	0.53
	30	5.56	11.35	0.62	ND	ND	ND
	31	4.63	10.47	0.59	14.61	20.85	0.56
	32	7.98	12.61	0.61	20.24	22.13	0.56
	33	11.22	16.92	0.62	14.95	23.43	0.58
	34	8.14	12.51	0.64	12.58	21.14	0.56
	35	4.92	11.71	0.59	17.1	22.52	0.61
	36	4.36	8.72	0.62	6.05	15.1	0.53

	37	5.62	11.05	0.58	16.76	25.26	0.58
	38	4.91	11.41	0.56	18.24	25.89	0.56
	39	5.73	13.74	0.56	19.08	27.09	0.56
	40	6.41	13.26	0.56	18.2	26.02	0.53
	41	6.1	12.55	0.58	22.39	30.39	0.53
	42	ND	ND	ND	19.81	28.21	0.56
	43	13.99	18.93	0.56	10.77	18.19	0.59
	44	8.89	14.23	0.59	ND	ND	ND
	45	10.49	22.56	0.56	26.01	33.65	0.53
	46	5.77	14.03	0.59	22.2	29.19	0.66
	47	9.05	8.97	0.78	26.8	30.91	0.56
	48	6.94	8.35	0.56	14.18	21.02	0.56
	49	3.89	7.89	0.59	21.26	32.68	0.56
	50	3.99	8.73	0.59	19.69	27.23	0.56
	51	2.5	5.53	0.56	17.73	22.68	0.56
	52	3.26	5.41	0.53	25.18	29.4	0.56
	53	7.29	14.26	0.59	17.57	26.57	0.56
	54	3.05	4.21	0.56	13.1	18.43	0.5
	55	5.81	12.42	0.56	20.44	33.39	0.56
	56	6.33	13.36	0.59	20.56	31.14	0.56
	57	3.74	7.31	0.66	20.39	31.58	0.34
	58	4.3	8.43	0.53	24.21	35.12	0.56
	59	2.4	5.09	0.59	22.21	26.7	0.56
	60	7.53	14.9	0.59	16.75	23.71	0.59
	61	5.15	12.53	0.58	25.38	32.86	0.56
	62	6.03	13.52	0.58	16.69	27.12	0.56
	63	5.43	7.95	0.66	20.56	32.49	0.53
	64	15.68	9.01	0.59	15.81	24.72	0.53
	65	3.4	7.24	0.63	19.67	26.5	0.56
	66	ND	ND	ND	18.18	31.89	0.56
	67	ND	ND	ND	24.65	27.07	0.53
	68	5.15	8.52	0.56	20.23	22.98	0.56
	69	4.05	8.12	0.62	14.75	21.5	0.56
	70	9.05	8.67	0.59	ND	ND	ND
	71	9.87	12.61	0.53	22	30.78	0.53
	72	9.51	12.17	0.62	13.44	21.3	0.56
	73	6.01	14.21	0.59	24.26	40.14	0.53
	74	6	12.19	0.56	11.59	23.07	0.56
	75	10.37	11.56	0.56	16.32	30.02	0.59
	76	3.84	7.29	1.69	15.41	30.89	0.58
	1	6.41	13.86	0.66	10.77	20.84	0.67

P#2	2	9.44	18.96	0.62	17.86	29.69	0.66
	3	9.19	17.08	0.64	9.54	20.17	0.66
	4	7.38	15.14	0.66	14.15	27.36	0.66
	5	2.92	6.92	0.7	9.49	19.73	0.66
	6	11.02	20.89	0.64	12.34	24.64	0.66
	7	9	19.04	0.69	18.53	30.09	0.67
	8	8.97	18.67	0.63	12.26	24.36	0.66
	9	7.76	16.48	0.66	13.11	23.91	0.66
	10	5.3	12.13	0.66	15.03	29	0.66
	11	6.16	12.64	0.66	16.94	30.06	0.66
	12	9.33	17.64	0.66	11.09	20.41	0.66
	13	7.05	15.74	0.66	16.8	28.53	0.66
	14	10.59	22.27	0.66	16.34	37.06	0.66
	15	7.62	17.09	0.66	15.59	29.69	0.64
	16	9	18.18	0.64	16.9	28.36	0.66
	17	9.55	19.16	0.62	14.68	26.23	0.66
	18	4.4	7.81	0.72	11.25	21.77	0.66
	19	8.73	18.34	0.64	12.75	26.37	0.66
	20	8.29	17.08	0.66	11.81	22.82	0.67
	21	10.83	22.25	0.64	15.63	26.27	0.66
	22	10.03	16.51	0.64	14.17	27.38	0.67
	23	11.04	21.92	0.62	18.27	30.1	0.66
	24	10.41	21.76	0.66	14.73	25.83	0.66
	25	12.43	24.33	0.66	16.13	28.81	0.66
	26	9.35	17.13	0.64	14.09	27.55	0.66
	27	9.05	16.88	0.66	13.84	27.84	0.66
	28	8	15.56	0.66	10.36	20.55	0.66
	29	9.03	18.23	0.64	14.89	28.2	0.66
	30	7.66	16.34	0.66	13.99	27.33	0.66
	31	7.62	14.85	0.69	13.86	25.81	0.66
	32	10.52	17.96	0.67	16.75	30.16	0.66
	33	13.62	24.38	0.66	21.93	32.34	0.64
	34	12.42	21.44	0.67	16.42	30.69	0.66
	35	11.92	22.27	0.66	18.61	31.7	0.67
	36	10.3	18.81	0.66	17.59	30.56	0.66
	37	9.25	17.98	0.66	13.72	27.53	0.67
	38	10.43	20.47	0.66	14.11	27.59	0.66
	39	10.07	21.25	0.64	15.54	27.8	0.66
	40	10.25	20.33	0.66	15.87	30.45	0.64
	41	13.37	25.99	0.64	13.3	25.61	0.64
	42	8.79	18.21	0.67	15.71	26.91	0.64

	43	11.19	21.73	0.66	15.74	29.2	0.66
	44	14.2	25.28	0.66	19.23	30.7	0.66
	45	10.87	20.41	0.66	18.38	34.91	0.66
	46	9.43	19.35	0.64	11.72	23.03	0.66
	47	10.75	20.16	0.66	19.19	29.61	0.64
	48	15.09	28.77	0.62	13.18	25.03	0.62
	49	6.24	13.82	0.67	12.73	22.76	0.66
	50	8.83	17.78	0.66	14.91	27.57	0.64
	51	11.63	21.72	0.64	13.43	27.29	0.66
	52	10.05	20.45	0.66	13.19	25.66	0.64
	53	16.24	28.22	0.66	14.75	28.14	0.62
	54	14.17	25.69	0.64	19.3	32.3	0.66
	55	10.77	21.2	0.66	16.85	29.78	0.66
	56	11.94	21.45	0.66	11.88	22.51	0.66
	57	8.94	17.36	0.64	16.39	28.72	0.64
	58	10.78	19.09	0.62	11.49	20.89	0.62
	59	6.95	14.14	0.66	14.43	24.85	0.66
	60	11	21.52	0.66	15.7	27.79	0.66
	61	11.23	21.64	0.69	17.2	32.56	0.66
	62	14.73	27.78	0.64	17.87	29.08	0.66
	63	14.1	24.6	0.63	15.86	29.81	0.66
	64	11.92	24.43	0.63	14.95	27.8	0.62
	65	10.71	19.4	0.66	18.24	34.38	0.62
	66	8.54	16.52	0.66	14.91	27.05	0.62
	67	9.63	17.67	0.66	15.13	28.3	0.67
	68	10.78	21.8	0.64	15.19	28.91	0.67
	69	12.06	24.41	0.66	15.79	29.43	0.66
	70	11.01	22.5	0.67	11.77	23.88	0.62
	71	12.06	24.41	0.66	15.79	29.43	0.66
	72	9.46	19.32	0.66	9.49	18.12	0.67
	73	9.73	20.26	0.67	13.2	25.96	0.66
	74	12.06	24.41	0.66	15.79	29.43	0.66
	75	11.14	24.03	0.62	17.34	31.31	0.66
	76	11.25	22.84	0.66	13.53	25.72	0.63

P#3	1	2.64	5.2	0.5	9.94	19.99	0.5
	2	4.42	6.89	0.56	11.68	22	0.5
	3	2.79	5.21	0.53	15.98	20.71	0.5
	4	1.14	6.16	2.02	17.31	33.28	0.47
	5	2.56	5.94	0.5	12.14	25.53	0.5
	6	ND	ND	ND	12.12	24.2	0.5
	7	4.05	10.27	0.56	13.94	25.68	0.5
	8	5.83	6.63	0.5	9.4	21.86	0.5
	9	6.11	6.37	0.59	13.07	26.28	0.47
	10	6.03	10.1	1.94	9.02	21.98	0.47
	11	2.55	6.29	0.55	12.66	20.27	0.53
	12	5.07	13.29	0.69	10.65	23.32	0.5
	13	5.02	10.34	0.5	13.65	25.9	0.5
	14	6.4	10.08	0.5	7.8	12.96	0.5
	15	3.65	3.72	1.22	21.47	25.86	0.5
	16	0.7	2.91	0.47	12.98	23.16	0.47
	17	1.92	5.39	0.5	ND	ND	ND
	18	2.4	5.1	0.56	10.59	24.13	0.5
	19	2.2	5.78	0.53	8.01	19.93	0.48
	20	3.28	6.93	0.62	11.56	26.05	0.48
	21	3.4	3.86	0.67	17.21	30.16	0.53
	22	ND	ND	ND	15.26	22.39	0.53
	23	4.19	5.64	0.66	19.23	19.04	0.5
	24	3.63	10.05	0.5	12.25	28.15	0.5
	25	2.12	4.93	0.56	11.69	26.12	0.5
	26	ND	ND	ND	18.74	27.81	0.52
	27	3.09	6.74	0.5	12.68	22.15	0.5
	28	2.37	6.5	0.56	18.77	30.74	0.5
	29	3.28	4.43	0.53	ND	ND	ND
	30	ND	ND	ND	12.77	25.2	0.5
	31	ND	ND	ND	19.34	25.6	0.5
	32	4.27	3.49	0.72	19.56	24.19	0.51
	33	15.83	9.34	0.59	24.47	28.7	0.5
	34	3.13	4.14	0.22	15.76	27.79	0.5
	35	6.81	9.41	0.53	11.98	23.28	0.5
	36	8.07	7.28	0.59	10.4	19.56	0.5
	37	7.53	11.51	0.53	13.18	25.38	0.47
	38	3.54	5.56	0.47	ND	ND	ND
	39	ND	ND	ND	13.36	19.28	0.5
	40	3.79	9.2	0.5	12.02	26.98	0.48
	41	3.2	7.07	0.56	14.59	27.49	0.5

	42	1.02	3.3	1.5	8.9	16.72	0.53
	43	13.58	10.42	0.66	16.71	25.07	0.52
	44	ND	ND	ND	18.25	26.07	0.5
	45	4.35	8.26	0.53	16	23.94	0.5
	46	2.52	5.61	0.55	18	28.74	0.5
	47	2.66	6.52	0.53	10.79	21.07	0.47
	48	1.91	3.77	0.53	13.86	25.11	0.53
	49	3	5.72	0.56	10.64	24	0.5
	50	ND	ND	ND	16.66	21.52	0.5
	51	2.35	6.3	0.59	10.45	18.45	0.53
	52	5.14	8.76	0.56	10.6	21.3	0.5
	53	3.19	4.42	0.62	14.47	21.86	0.53
	54	3.2	4.78	0.5	18.91	30.74	0.5
	55	5.54	8.76	0.59	13.04	22.44	0.5
	56	ND	ND	ND	12.11	27.04	0.47
	57	3.22	6.91	0.53	9.53	19.46	0.5
	58	3.55	10.04	0.53	9.08	15.88	0.53
	59	1.95	7.54	1.59	12.43	27.78	0.47
	60	ND	ND	ND	13.34	23.93	0.5
	61	5.69	9.71	0.53	9.13	15.31	0.53
	62	3.24	3.42	0.22	13.54	21.12	0.53
	63	ND	ND	ND	10.07	21.4	0.53
	64	4.02	3.79	0.64	ND	ND	ND
	65	3.01	8.91	2.02	8.4	19.57	0.53
	66	3.89	11.68	0.5	12.03	23.18	0.53
	67	2.16	3.05	0.58	10.58	22.59	0.5
	68	3.09	5.04	0.69	12.79	26.93	0.5
	69	ND	ND	ND	11.02	22.71	0.5
	70	2.82	7.64	0.53	11.14	22.46	0.5
	71	1.96	4.02	0.5	16.38	26.97	0.5
	72	1.98	5.85	0.22	12.46	23.81	0.48
	73	ND	ND	ND	8.52	19.9	0.52
	74	ND	ND	ND	11.07	20.48	0.5
	75	2.16	4.5	0.23	10.05	20.85	0.5
	76	6.86	7.65	0.59	10.77	21.11	0.5

P#4	1	1.56	3.78	0.72	10.3	21.95	0.66
	2	3.49	9.16	0.69	12.51	27.44	0.66
	3	1.51	3.81	0.66	10.08	24.4	0.62
	4	2.22	4.45	0.66	10.17	24.8	0.62
	5	3.04	6.58	0.69	4.99	11.84	0.69
	6	4.21	9.61	0.66	11.34	25.72	0.63
	7	4.27	8.58	0.72	13.81	30.28	0.62
	8	3.24	8.38	0.66	10.04	23.38	0.66
	9	2.63	6.85	0.66	8.96	21.95	0.66
	10	2.42	5.7	0.69	10.79	26.25	0.63
	11	2.65	5.55	0.69	7.98	17.27	0.66
	12	2.24	5.91	0.66	13.51	28.26	0.66
	13	2.89	5.48	0.69	13.14	30.18	0.66
	14	6.37	15.38	0.66	14	24.1	0.66
	15	1.9	3.76	0.72	8.04	19.44	0.66
	16	3.04	8.57	0.62	13.98	32.17	0.66
	17	5.2	12.29	0.66	13.97	32.77	0.63
	18	1.46	3.81	0.69	13.29	30.23	0.61
	19	2.02	4.97	0.66	7.5	18.05	0.66
	20	6.01	10.65	0.66	10.22	22.31	0.66
	21	2.34	4.17	0.69	11.71	27.58	0.62
	22	3.63	9.97	0.69	11.87	22.88	0.62
	23	3.43	5.89	0.77	8.21	12.73	0.69
	24	2.38	4.93	0.72	20.68	27.59	0.69
	25	3.61	9.87	0.66	15.37	35.25	0.62
	26	3.54	5.91	0.69	15.59	32.98	0.62
	27	5.35	11.74	0.66	13.87	32.01	0.62
	28	4.05	10.82	0.62	10.66	23.5	0.66
	29	4.56	10.78	0.69	13.69	26.4	0.62
	30	3.82	6.91	0.72	7.62	17.47	0.66
	31	5.64	12.56	0.66	14.75	33.41	0.63
	32	5.94	11.44	0.69	13.09	22.22	0.66
	33	14.07	22.97	0.69	24.98	22.36	0.69
	34	4.16	9.85	0.75	20.29	30.14	0.69
	35	8.78	20.14	0.66	12.06	22.5	0.66
	36	5.35	14.11	0.66	10.86	19.54	0.62
	37	2.84	6.74	0.66	11.39	22.44	0.66
	38	4.4	10.08	0.66	17.48	29.27	0.62
	39	2	5.67	0.69	4.12	10.95	0.66
	40	2.34	5.97	0.66	6.19	15.23	0.66
	41	1.66	4.7	0.69	5.77	13.71	0.66

	42	3.9	10.07	0.69	7.07	17.63	0.66
	43	9.99	20.69	0.66	7.21	17.09	0.66
	44	4.83	11.2	0.66	17.54	28.34	0.66
	45	6.68	14.98	0.66	19.16	30.65	0.66
	46	4.98	11.87	0.67	11.81	22.82	0.66
	47	4.02	10.28	0.66	13.81	29.35	0.64
	48	6.2	15.41	0.66	9.72	22.71	0.66
	49	3.27	5.11	0.66	11.83	28.34	0.62
	50	2.95	6.89	0.66	11.23	26.87	0.62
	51	4.73	12.43	0.66	12.85	23.86	0.66
	52	1.58	3.99	0.66	10.83	25.28	0.63
	53	5.58	14.49	0.66	10.77	20.87	0.66
	54	8.1	15.67	0.66	14.11	26.67	0.63
	55	5.79	15.5	0.62	15.66	32	0.66
	56	5.63	14.33	0.66	18.65	33.14	0.66
	57	8.51	20.37	0.64	14.03	32.89	0.62
	58	3.7	9.36	0.66	9.16	21.09	0.66
	59	0.93	2.71	0.72	6.4	16.42	0.66
	60	0.54	1.14	0.91	8.01	17.43	0.66
	61	1.51	3.99	0.78	7.35	18.06	0.66
	62	5.03	11.57	0.69	15.36	26.85	0.62
	63	4.75	11.71	0.66	10.7	19.97	0.66
	64	5.5	14.02	0.64	14.33	28.66	0.62
	65	5.07	12.82	0.66	9.34	22.37	0.62
	66	2.75	7.27	0.69	12.29	27.2	0.63
	67	2.4	5.2	0.66	12.54	21.85	0.66
	68	2.22	5.32	0.66	12.25	26.36	0.62
	69	3.67	9.6	0.66	9.73	23.72	0.62
	70	6.84	18.14	0.66	8.33	20.45	0.62
	71	3.67	9.6	0.66	9.73	23.72	0.62
	72	7.54	19.56	0.62	13.97	22.51	0.61
	73	0.68	1.29	0.69	7.7	18.95	0.63
	74	3.67	9.6	0.66	9.73	23.72	0.62
	75	4.73	8.55	0.66	7.63	18.74	0.64
	76	1.91	5.53	0.62	7.38	18.26	0.66

P#5	1	5.18	8.11	0.69	19.81	29.9	0.66
	2	14.24	24.06	0.66	20.02	32.37	0.62
	3	13.39	21.88	0.67	15.69	22.87	0.63
	4	16.96	26.65	0.66	25.31	37.98	0.62
	5	4.5	6.3	0.67	15.58	24.92	0.62
	6	8.21	9.67	0.72	19.07	31.9	0.63
	7	17.19	27.58	0.64	8.56	12.65	0.69
	8	10.36	16.72	0.62	17.37	29.65	0.64
	9	15.9	25.85	0.64	18.91	30.87	0.64
	10	17.65	27.82	0.66	21.59	34.01	0.64
	11	8.83	14.8	0.72	20.37	32.71	0.63
	12	7.94	13.24	0.66	17.08	27.27	0.63
	13	16.61	25.11	0.67	17.29	31.11	0.63
	14	10.63	18.48	0.66	15.8	26.06	0.62
	15	9.83	16.84	0.64	18.14	30.03	0.62
	16	4.21	6.67	0.66	21.96	33.21	0.64
	17	9.23	16.44	0.66	19.43	31.42	0.62
	18	8.37	15.4	0.66	19.32	32.81	0.66
	19	13.58	20.74	0.69	23.49	32.76	0.63
	20	17.29	26.46	0.66	18.62	28.17	0.66
	21	16.5	25.56	0.62	22.12	33.29	0.63
	22	19.72	29.3	0.66	20.17	32.73	0.66
	23	17.04	25.34	0.67	22.08	34.57	0.62
	24	9.74	16.09	0.67	21.03	31.08	0.62
	25	11.26	17.66	0.67	21.86	33.59	0.62
	26	4.21	7.49	0.66	15.51	22.8	0.62
	27	8.91	15.36	0.64	20.32	31.5	0.64
	28	6.98	11.52	0.66	18	30.1	0.62
	29	15.18	25.68	0.66	19.95	31.04	0.61
	30	15.4	25.22	0.66	19.19	31.53	0.62
	31	11.86	19.56	0.69	19.03	31.16	0.62
	32	17.93	26.99	0.66	21.4	32.17	0.62
	33	20.24	30.42	0.66	23.09	36.94	0.62
	34	8.4	14.04	0.66	20.62	32.55	0.63
	35	13.58	21.5	0.66	22.88	34.69	0.62
	36	10.86	16.88	0.63	19.21	29.98	0.62
	37	10.02	17.26	0.66	23.3	34.25	0.62
	38	3.15	4.43	0.69	22.52	36	0.61
	39	10.66	14.09	0.66	18.45	30.74	0.62
	40	13.62	21.69	0.66	20.98	32.86	0.63
	41	12.27	20.25	0.66	18.01	28.61	0.66

	42	13.19	21.62	0.66	21.27	35.08	0.62
	43	15.42	22.4	0.67	18.61	28.98	0.63
	44	16.68	25.08	0.66	17.65	28.19	0.59
	45	10.87	14.24	0.66	19.92	28.91	0.62
	46	10.79	11.9	0.67	23.24	38.67	0.63
	47	5.8	9.64	0.66	22.71	33.76	0.63
	48	11.52	19.12	0.66	21.09	33.85	0.63
	49	5.05	7.9	0.67	18.52	30.07	0.64
	50	9.02	15.43	0.66	19.87	31.3	0.63
	51	4.85	8.84	0.7	18.46	29.48	0.62
	52	5.29	9.39	0.67	20.75	31.8	0.63
	53	13.14	22.72	0.66	20.69	33.33	0.63
	54	9.33	15.99	0.62	18.58	27.75	0.63
	55	ND	ND	ND	17.98	28.77	0.63
	56	5.3	6.92	0.72	24.38	37.66	0.59
	57	15.69	19.84	0.63	21.31	35.57	0.62
	58	17.72	25.12	0.62	18.55	27.48	0.66
	59	10.07	12.47	0.69	17.91	27.76	0.62
	60	3.41	6.49	0.69	23.32	35.97	0.63
	61	8.91	14.04	0.66	21.52	33.52	0.62
	62	9.15	15.64	0.63	18.95	28.71	0.62
	63	6.54	10.8	0.62	16.29	26.18	0.62
	64	7.53	11.99	0.69	19.73	30.83	0.61
	65	9.13	13.29	0.67	20.49	32.32	0.58
	66	13.71	23.22	0.66	17.89	28.25	0.64
	67	5.39	8.16	0.7	22.39	32.85	0.62
	68	8.19	13.78	0.66	20.82	32.76	0.63
	69	16.86	29.37	0.62	15.3	25.31	0.62
	70	15.71	24	0.62	20.34	30.49	0.62
	71	9.07	14.13	0.66	15.3	25.31	0.62
	72	10.22	16.19	0.67	19.74	31.58	0.62
	73	9.96	12.79	0.66	17.4	23.89	0.63
	74	9.07	14.13	0.66	15.3	25.31	0.62
	75	8.44	12.49	0.66	14.62	24.95	0.64
	76	9.01	15.23	0.66	19.35	33.07	0.63

P#6	1	7.56	12.56	0.56	23.09	39.09	0.5
	2	8.47	18.23	0.53	9.08	18.13	0.53
	3	5.93	10.4	0.59	19.88	37.83	0.5
	4	6.27	13.29	0.53	33.77	47.84	0.5
	5	8.88	19.69	0.53	33.39	39.65	0.5
	6	11.74	18.52	0.53	32.63	46.79	0.5
	7	12.31	18.16	0.53	17.72	31.7	0.47
	8	7.66	16.89	0.5	26.82	44.75	0.5
	9	14.54	29.54	0.5	28.12	44.86	0.5
	10	9.57	19.7	0.5	31.31	39.57	0.5
	11	7.41	15.87	0.53	22.31	41.03	0.5
	12	5.7	11.52	0.59	24.33	40.43	0.5
	13	12.44	22.93	0.53	30.1	39.89	0.55
	14	6.57	14.21	0.56	12.44	25.62	0.5
	15	15.89	29.12	0.52	23.16	38.77	0.5
	16	9.52	18.24	0.52	30.32	53	0.47
	17	18.84	24.83	0.52	32.78	44.92	0.53
	18	13.85	27.3	0.52	28.69	43.19	0.5
	19	10.93	22.87	0.5	24.35	41.48	0.5
	20	8.71	16.66	0.59	25.75	37.51	0.55
	21	9.01	17.94	0.52	30.96	42.5	0.5
	22	14.44	28.8	0.5	30	37.41	0.53
	23	18.14	16.9	0.53	14.31	26.3	0.5
	24	12.36	21.41	0.53	33.85	44.79	0.5
	25	12.4	25.38	0.53	30.2	40.94	0.5
	26	15.18	28.63	0.5	27.26	44.34	0.5
	27	12.61	15.62	0.53	27.01	42.84	0.5
	28	13.24	24.48	0.5	28.88	48.7	0.47
	29	8.06	16.72	0.53	13.14	16.39	0.53
	30	6.74	6.55	0.81	14.92	31.14	0.5
	31	10.21	20.26	0.53	14.1	22.68	0.53
	32	9.15	20.12	0.5	27.34	34.03	0.5
	33	14.77	21.74	0.53	23.21	28.88	0.53
	34	1.48	3.34	0.72	0.92	2.74	1.69
	35	26.97	29.17	0.5	0	0	0
	36	11.9	21.38	0.5	16.95	30.64	0.5
	37	9.99	19.19	0.5	17.92	30.43	0.48
	38	16.84	21.13	0.5	20.57	32.79	0.52
	39	14.48	25.25	0.53	25.88	45.63	0.5
	40	ND	ND	ND	27.15	44.24	0.5
	41	12.55	22.52	0.53	27.58	44.24	0.5

	42	ND	ND	ND	28.85	43.5	0.5
	43	9.41	18.09	0.53	23.52	28.16	0.5
	44	12.17	24.04	0.59	ND	ND	ND
	45	10.36	21.95	0.59	40.82	40.73	0.56
	46	22.1	23.57	0.53	34.48	45.79	0.47
	47	12.6	23.52	0.5	27.88	43.24	0.53
	48	18.12	18.55	0.53	30.94	47.29	0.5
	49	12.8	22.42	0.53	34.19	45.48	0.5
	50	13.45	28.92	0.5	23.52	34.5	0.5
	51	7.48	16.17	0.56	ND	ND	ND
	52	6.7	9.63	0.63	34.39	46.14	0.5
	53	ND	ND	ND	12.66	27.69	0.5
	54	ND	ND	ND	27.11	40.2	0.5
	55	11.42	21.05	0.59	ND	ND	ND
	56	22.65	27.56	0.56	36.3	49.25	0.53
	57	11.84	22.55	0.55	25.99	45.29	0.5
	58	23.94	32.35	0.5	27.8	40.52	0.5
	59	6.99	14.87	0.56	28.24	43.94	0.5
	60	7.77	14.01	0.53	32.32	35.64	0.47
	62	13.45	19.37	0.56	15.93	25.15	0.5
	63	18.56	26.59	0.53	32.74	42.66	0.48
	64	13.64	23	0.56	33.93	48.98	0.5
	65	11.44	20.3	0.5	34.57	47.72	0.5
	66	9.99	14.1	0.53	22.04	30.4	0.5
	67	17.66	21.22	0.56	27.8	40.53	0.5
	68	15.35	24.87	0.53	25.39	39.57	0.53
	69	3.83	8.2	0.62	30.62	46.9	0.53
	71	3.83	8.2	0.62	30.62	46.9	0.53
	72	10.82	17.45	0.5	30.65	47.89	0.5
	73	19.85	22.74	0.53	32.89	43.37	0.52
	74	3.83	8.2	0.62	30.62	46.9	0.53
	75	14.44	19.75	0.52	34.02	43.34	0.5
	76	10.22	18.69	0.53	38.88	45.61	0.53

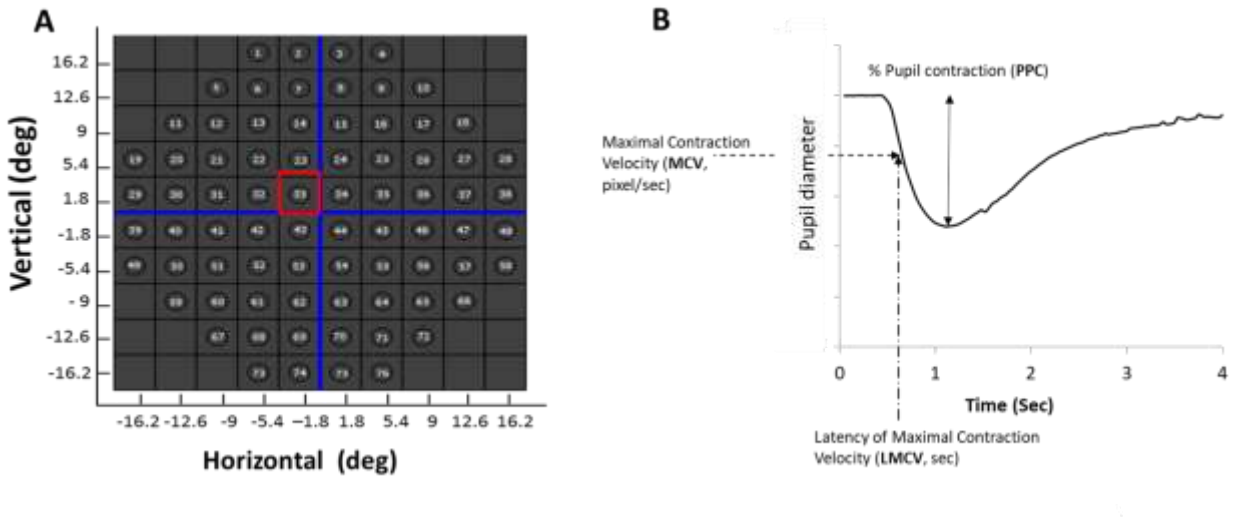
P#7	1	11.57	20	0.7	19.82	34.54	0.66
	2	14.05	29.53	0.69	25.15	40.48	0.66
	3	4.31	10.8	0.72	18.6	35.23	0.66
	4	4.51	11.38	0.69	26.84	37.91	0.66
	5	11.22	17.7	0.66	19.55	33.99	0.66
	6	12.89	23.06	0.69	22.02	35.15	0.64
	7	14.09	25.21	0.66	22	39.43	0.66
	8	6.9	13.22	0.69	23.45	42.68	0.66
	9	13.73	26.29	0.69	22.88	41.48	0.66
	10	9.96	17.72	0.69	19.85	37.77	0.66
	11	15.72	23	0.67	31.15	49.96	0.66
	12	15.03	24.09	0.66	23.8	41.5	0.66
	13	13.57	24.39	0.66	24.31	43.83	0.66
	14	11.14	25.08	0.66	24.72	41.58	0.66
	15	12.85	27.71	0.69	30.96	44.99	0.64
	16	11.9	21.5	0.69	29.42	39.56	0.66
	17	7.09	15.57	0.66	26.19	46.37	0.66
	18	3.64	9.23	0.69	27.71	40.65	0.66
	19	20.1	32.58	0.69	24.67	37.37	0.66
	20	10.36	20	0.69	26.64	43.84	0.66
	21	9.31	20.36	0.66	23.2	40.94	0.66
	22	6.44	14.94	0.69	27.93	44.08	0.66
	23	17.83	33.01	0.66	23.2	39.01	0.66
	24	12.1	26.61	0.69	25.39	42.8	0.66
	25	10.25	21.72	0.69	27.36	41.86	0.66
	26	7.84	14.6	0.69	25.17	39.78	0.66
	27	7.63	18.53	0.66	22.63	41.5	0.66
	28	10.73	22.59	0.66	22.19	40.7	0.64
	29	5.17	12.63	0.69	ND	ND	ND
	30	12.37	25.31	0.66	19.66	36.34	0.66
	31	13.66	27.93	0.69	26.84	42.43	0.66
	32	17.3	29.63	0.69	29.49	44.27	0.66
	33	14.06	25.29	0.67	36.1	43.87	0.69
	34	16.67	33.92	0.69	32.87	42.17	0.66
	35	14.33	25.92	0.69	28.95	45.46	0.66
	36	12.81	27.12	0.66	28.4	39.61	0.66
	37	16.61	25.11	0.66	25.96	40.51	0.66
	38	9.15	21.26	0.66	26.57	41.53	0.62
	39	11.88	25.61	0.66	18.13	33.49	0.67
	40	7.77	17.47	0.66	23.09	42.33	0.66
	41	15.7	29.42	0.69	22.43	41.43	0.66

	42	12.42	26.7	0.69	27.9	45.12	0.66
	43	17.23	29.59	0.69	26.9	38.84	0.66
	44	7.41	17.78	0.69	34.08	44.61	0.64
	45	16.32	31.43	0.66	25.26	42.28	0.66
	46	3.84	9.16	0.66	21.79	40.7	0.66
	47	14.85	28.72	0.66	22.96	40.04	0.69
	48	8.85	17.44	0.66	25.92	38.78	0.66
	49	9.05	20.99	0.69	24.65	43.43	0.66
	50	13.24	28.9	0.69	21.83	37.8	0.66
	51	15.52	28.19	0.66	26.21	43.89	0.64
	52	8.61	17.11	0.69	25.61	38.4	0.67
	53	13.79	27.53	0.69	36.81	49.27	0.66
	54	18.54	32.31	0.66	28.78	43.62	0.66
	55	12.02	25.6	0.66	27.04	43.11	0.66
	56	13.1	26.33	0.66	28.94	43.49	0.63
	57	13.11	23.83	0.69	25.19	40.99	0.66
	58	4.05	9.64	0.72	26.91	39.21	0.66
	59	7.65	15.31	0.69	22.01	36.52	0.66
	60	8.5	17.41	0.69	14.96	31.12	0.67
	61	11.26	20.93	0.72	21.57	36.09	0.67
	62	13.46	26.55	0.66	ND	ND	ND
	63	12.19	24.43	0.66	26.36	36.42	0.69
	64	15.04	27.12	0.69	29.61	39.83	0.66
	65	13.13	24.27	0.67	27.96	40.65	0.62
	66	17.52	31.46	0.66	20.77	38.72	0.66
	67	7.75	16.58	0.72	31.57	44.24	0.66
	68	7.45	18.02	0.69	18.49	35.29	0.66
	69	13.45	23.9	0.64	29.96	41.48	0.66
	70	9.8	23.24	0.66	18.72	35.98	0.66
	71	13.45	23.9	0.64	29.96	41.48	0.66
	72	11.33	20.34	0.66	19.7	32.34	0.66
	73	7.99	16.36	0.69	19.46	35.82	0.66
	74	13.45	23.9	0.64	29.96	41.48	0.66
	75	19.63	16.1	0.62	28.5	38.67	0.64
	76	6.38	14.54	0.69	29.96	41.48	0.66
PPC – percentage of pupil contraction; MCV – maximal pupil contraction velocity; LMCV latency of maximal pupil contraction velocity; sec- seconds;							

Table S4 –Correlation between BVMD patients' mean and median pupilloperimetry parameters, Humphrey perimetry MD score and BCVA.

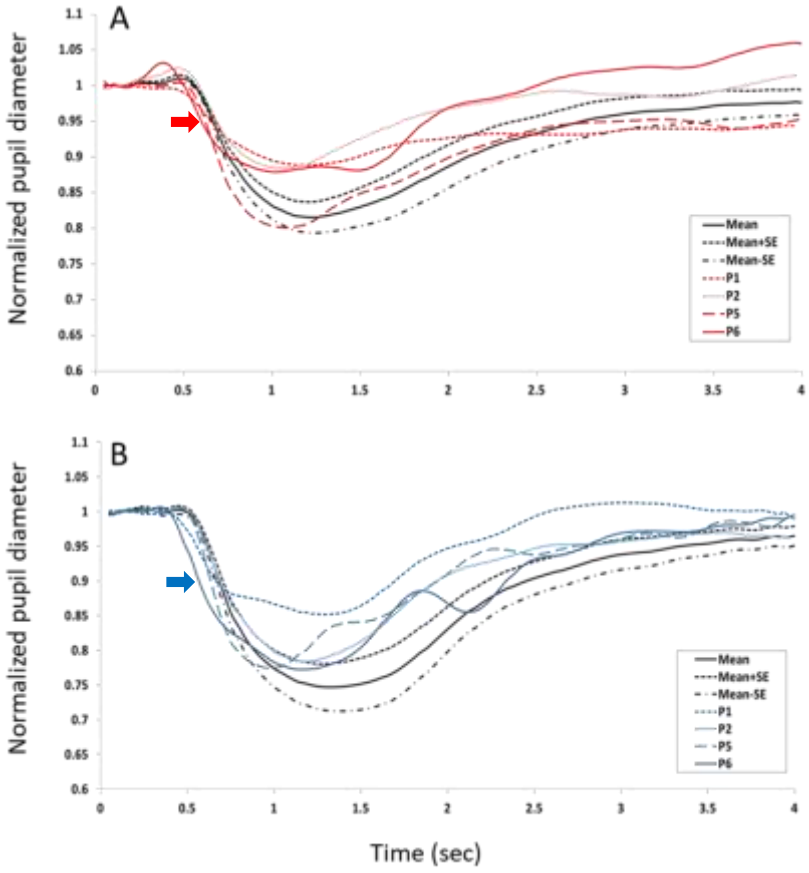
		Humphrey (Mean Deviation, MD)	BCVA (Decimal)
Mean	**Blue PPC**	r=-0.750 (p=0.052)	r=0.218 (p=0.638)
	Blue MCV	r=-0.893 p=0.007	r=0.491 (p=0.263)
	Blue LMCV	r=-0.250 (p=0.589)	r=0.546 (p=0.205)
	Red PPC	r=-0.107 (p=0.819)	r=-0.218 (p=0.638)
	Red MCV	r=-0.714 (p=0.071)	r=0.709 (p=0.074)
	Red LMCV	r=-0.357 (p=0.432)	r=0.327 (p=0.474)
Median	**Blue PPC**	r=-0.714 (p=0.071)	r=0.218 (p=0.638)
	Blue MCV	r=-0.893 (p=0.007)	r=0.491 (p=0.263)
	Blue LMCV	r=-0.318 (p=0.487)	r=0.457 (p=0.302)
	Red PPC	r=-0.036 (p=0.939)	r=-0.055 (p=0.908)
	Red MCV	r=-0.821 (p=0.023)	r=0.655 (p=0.111)
	Red LMCV	r=-0.505 (p= 0.247)	r=0.343 (p=0.451)

Figure S1 – **Pupilloperimetry test targets and pupil response parameters**



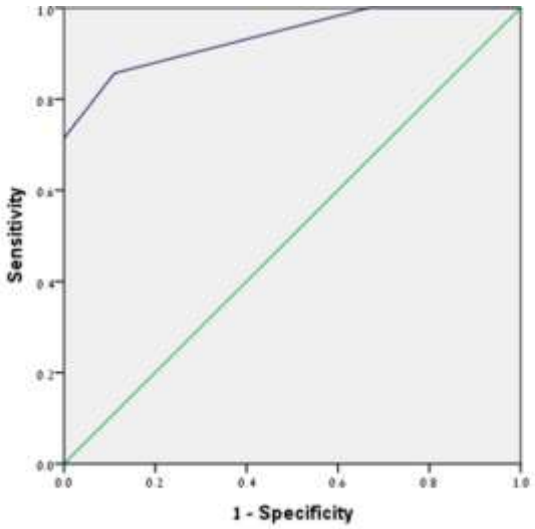
A- The distribution of the 76 test targets in the 16.2 degree visual field. The central targets (#33) in which LMCV in response to red light differentiated between controls and BVMD patients with high sensitivity and specificity is highlighted with a red borderline. **B-** Pupil response parameters examined in the presented study.

Figure S2 – BVMD patients present shorter latency of pupil response compared with controls.



Pupil responses to red (A) and blue (B) light were recorded in central visual field test point #33. The pupil responses of each subject were normalized using the mean pupil diameter of the first three measurements taken at 0.03, 0.06 and 0.09 seconds following light onset. The mean normalized pupil diameter of control subjects is shown in a black solid line ± standard error (SE, dashed black lines). The normalized pupil diameter recorded in four BVMD patients (p1, p2, p5, p6) is shown in colored lines. The shorter latencies of the pupil responses of patients #1, #5, and #6 are highlighted with arrows.

Figure S3 – ROC curve for LMCV recorded in response to red light in central visual field target #33



ROC curve for LMCV recorded in response to red light in the central visual field test target #33